

# SESS-48(5.0S-S1)

Document: [Lithium Battery datasheet](#)

Doc. Version: [V4.0](#)

Issue Date: [1-1-2024](#)

## Overview

Lithium iron phosphate battery module which designed for storage and power supply system application.

This battery module integrated with intelligent BMS with big advantages on safety, cycle life, energy density, temperature range and environmental protection.

This product specification describes the type, size, structure, electrochemistry performance, service life, and BMS characteristics.

## Images



## Advantages

- Long life and safety: Vertical industry integration ensures more than 6000 cycles with 80% DoD.
- Easy to install and use: Integrated inverter design, easy to use and quick to install.
- Multiple working modes: The inverter has a variety of working modes. Whether it is used for main power supply in the area without electricity or backup power supply in the area with unstable power to deal with sudden power failure, the system can respond flexibly.
- Fast and flexible charging: A variety of charging methods, which can be charged with photovoltaic or commercial power, or both at the same time.
- Scalability: You can use 4 batteries in parallel at the same time, and can provide a maximum of 20kWh for your use.

## Application Scenario



House



Electric power



Wind



Telecom



Industry

UPS

Ups

## Certification

CE

UN38.3, MSDS

EN55032, EN55024, EN61000-3-2, EN61000-3-3

Note 1: Please always refer to the latest edition of our technical datasheet that published on our website to ensure safe and efficient operation.

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## Specification

### MODEL BATTERY

Battery Module	1
Battery Energy	5.12kWh
Battery Capacity	100AH
Weight	51kg
Dimension L×D×H	650×460×200
Battery Type	LiFePO4
Battery Rated Voltage	51.2V
Battery Working Voltage Range	44.8~57.6V
Maximum Charging Current	100A
Maximum Discharging Current	100A
DOD	80%
Parallel Quantity	2
Designed Life-span	15years

### PV CHARGE

Solar Charge Type	MPPT
Maximum Output Power	5KW
PV Charging Current Range	0~80A
PV Operating Voltage Range	120~500V
MPPT Voltage Range	120~450V

### AC CHARGE

Maximum Charge Power	3150W
AC Charging Current Range	0~60A
Rated Input Voltage	220/230Vac
Input Voltage Range	90-280Vac

### OUTPUT

Rated Output Power	5KW
Maximum Peak Power	10KVA
Power Factor	1
Rated Output Voltage (Vac)	230Vac
Frequency	50Hz
Auto Switch Period	<15ms
THD	<3%

### SPECIFICATION

### GENERAL

### SPECIFICATION

Communication	RS485/CAN/WIF
Storage time/temperature	12 months @25°C
Charging temperature range	0 ~ 45°C
Discharging temperature range	-10 ~ 45°C
Operation Humidity	5% ~ 85%
Nominal Operation Altitude	<2000m
Cooling Mode	Force-Air Cooling
Noise	60dB(A)
Ingress Protection Rating	IP20
Operation Environme	Indoor
Installation Method	Vertical